

CLAIMS

1. A string instrument including  
a body and neck with a plurality of strings attachable to the neck and body;

5 and

detachment means for detaching the neck from the body, said detachment means includes a clamping means which has a clamping arm extendable from either the neck or body and a securing means for securing the clamping arm on the other guitar portion; wherein the clamping force produced from the assembled instrument  
10 is substantially parallel with the longitudinal axis of the neck and body.

2. A string instrument as claimed in claim 1 wherein the clamping arm extends from the neck and is securable by a retaining means fixed to the body.

- 15 3. A string instrument as claimed in claim 2 wherein the clamping arm is a threaded rod with an adjustable nut and the threaded rod and nut is secured by a body retaining means which is a slotted member.

4. A string instrument including

20 a body and neck with a plurality of strings attachable to the neck and body;  
and

detachment means for detaching the neck from the body, said detachment means includes a clamping means which has a clamping arm engageable with the neck and actuated by biased linkage means, said biased linkage means is

associated with the body; wherein the clamping force produced from the assembled instrument is substantially parallel with the longitudinal axis of the neck and body.

5. A string instrument as claimed in claim 4 wherein the biased linkage means includes a pivotal lever which is pivotally attached to the guitar body by an offset pivot.
6. A string instrument as claimed in claim 5 wherein the lever is also pivotally connected to the clamping arm so that the clamping arm reciprocates when the lever moves about its pivot.
7. A string instrument as claimed in claim 5 wherein the biased linkage means includes a cam linkage between a lever and the clamping arm.
8. A string instrument as claimed in claim 5 wherein the biased linkage means is a quadrant linkage where a substantially triangular member is pivotally connected to the body at one apex while a lever is attached at a second apex and the clamping arm is attached at a third apex.
9. A string instrument including  
a body and neck with a plurality of strings attachable to the neck and body;  
and  
detachment means for detaching the neck from the body, said detachment means includes a clamping means which has a clamping arm engageable with the neck and actuated by biased linkage means, said biased linkage means includes a

lever pivotally connected to the body by an offset pivot and pivotally connected to the clamping arm so that the clamping arm reciprocates when the lever moves about its pivot, wherein the clamping force produced from the assembled instrument is substantially parallel with the longitudinal axis of the neck and body.

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10. A string instrument as claimed in claim 9 wherein the lever is connected to the lower side of the body and the lever and clamping arm are positioned within a recess in the lower side of the body.

10 11. A string instrument as claimed in claim 9 or 10 wherein the clamping arm has an engagement portion for engaging the neck.

12. A string instrument as claimed in claim 11 wherein the clamping arm is T-shaped.

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13. A string instrument as claimed in claim 9 or 10 wherein the neck has a clamp support for engagement with the clamping arm.

14. A string instrument as claimed in claim 13 wherein the clamp support is  
20 attached to the underside (non-fret side) of the neck.

15. A string instrument as claimed in claim 14 wherein the clamp support has a locating portion for locating the neck relative to the body prior to clamping; the locating portion includes a recess for positioning a locating projection on the body or  
25 clamping arm; the positioning of the locating projection within the locating recess

locates the clamp support relative to the body so that the neck can be clamped to the body; said clamp support can also pivot about the locating projection positioned within the recess; when the clamp arm has engaged the clamp support, the lever is rotated backwards and the clamping arm clamps the clamp support and neck to the body, thereby producing a clamping force that is substantially parallel with the longitudinal axis of the neck and body and parallel with the tensioned strings.

16. A string instrument as claimed in any one of the above mentioned claims wherein the string instrument is a guitar.

17. A string instrument including

a body and neck with a plurality of strings attachable to the neck and body; and

detachment means for detaching the neck from the body, said detachment means includes a clamping means which has a clamping arm engageable with the neck and actuated by biased linkage means, said biased linkage means is associated with the body; wherein the clamping force produced from the assembled instrument clamps the clamping arm against the neck.

18. A string instrument including

a body and neck with a plurality of strings attachable to the neck and body; and

detachment means for detaching the neck from the body, said detachment means includes a clamping means which has a clamping arm engageable with the neck and actuated by biased linkage means, said biased linkage means is

associated with the body; the neck has a clamp support on the underside (non-fret side) of the neck for engagement with the clamping arm; wherein the clamping force produced from the assembled instrument clamps the clamping arm against the clamp support.

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19. A guitar including

a body and neck with a plurality of strings attachable to the neck and body;  
and

detachment means for detaching the neck from the body, said detachment  
10 means includes a clamping means which has a clamping arm engageable with the neck and actuated by biased linkage means, said biased linkage means is associated with the body; wherein the clamping force produced from the assembled instrument clamps the clamping arm against the neck.

15 20. A guitar including

a body and neck with a plurality of strings attachable to the neck and body;  
and

detachment means for detaching the neck from the body, said detachment  
means includes a clamping means which has a clamping arm engageable with the  
20 neck and actuated by biased linkage means, said biased linkage means is associated with the body; the neck has a clamp support on the underside (non-fret side) of the neck for engagement with the clamping arm; wherein the clamping force produced from the assembled instrument clamps the clamping arm against the clamp support.